

**DRAFT**

**Electronic Commerce Processing Node (ECPN)  
System Administration Manual**

Prepared by:

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Version 1.0.6.2

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# *Section 1*

## Introduction

This manual describes the installation, setup and maintenance of the Electronic Commerce Processing Node (ECPN), which is a Computer Software Configuration Item (CSCI) of the system identified as Electronic Commerce/Electronic Data Interchange (EC/EDI).

This manual is divided into the following sections:

**Introduction**

Explains the purpose and contents of this ECPN System Administration Manual.

**System Menu**

Describes how to set ECPN display characteristics such as the font displayed in the system's windows and menus.

**Hardware Menu**

Describes how to shutdown and reboot the system, manage disks, remount global data, configure printers and monitors, and diagnose hardware problems.

**Software Menu**

Describes how to install segments and patches.

**Network Menu**

Describes how to change the name and IP address for a machine, edit the host database, and set the system time, master server and backup server.

**Installation Instructions**

Provides installation instructions for the OS tape and for one or more application segment tapes.

## *Section 2*

### System Menu

The options on the System menu allow you to set certain overall ECPN system display characteristics such as the font displayed in the windows and menus.

**Set Windows Font**

To set the default font for all ECPN windows.

**Set Menus Font**



To set the default font for all ECPN menus.

### **Close All**

To close all open ECPN windows.

### **System Exit**

To exit the ECPN system.

## **2.1 Set Windows Font**

The Set Windows Font option enables you to set the font size for windows in the System Administration application, including the pop-up menus. Windows and pop-up menus will be sized in proportion to the font size. When the font is changed, the change *does not* take effect until a new window is opened. The new font is saved as the default and will continue to be used, even when the system is shut down and restarted.

To set the font for all ECPN windows:

1. From the System menu, select Set Window Font. The Select a Window Font Window appears.

Figure 2.1-1 Select a Window Font Window

2. From the list of font options displayed, select a font. You have several options: general font sizes (e.g., SMALL, MEDIUM, LARGE), specific window sizes (e.g., 8x16), and specific font types (e.g., 10 POINT COURIER BOLD). When you make a selection, a sample of the text in that font appears in the Sample Text box.
3. Click Select.
4. Open any ECPN window. This window will appear in the font designated by the setting in the Select a Window Font window. (Any window that was open before you changed the font will need to be closed and then re-opened in order for the setting to apply.)

## **2.2 Set Menus Font**

The Set Menus Font option enables you to set the font size for the menu bar and pull-down menus on the System Administrator screen.

To set the font for all ECPN menus:

1. From the System menu, select Set Menus Font. The Select a Menu Font window appears.

Figure 2.2-1 Select a Menu Font Window

2. From the list of font options displayed, select a font. You have several options: general font sizes (e.g., SMALL, MEDIUM, LARGE), specific window sizes (e.g., 8x16), and specific font types (e.g., 10 POINT COURIER BOLD). When you make a selection, a sample of the text in that font appears in the Sample Text box.
3. Click Select. Note that the font change will not take effect until the user exits to the login window and the System Administrator screen reappears.

## **2.3 Close All**

Use this option to close all windows on the screen. When Close All is selected from the System menu, all ECPN windows will close, and any changes or additions that have not been applied (by clicking OK) will be lost.

## **2.4 System Exit**

Use this option to exit from the System Administrator screen and return to the login window.

# *Section 3*

## Hardware Menu

The options on the Hardware menu allow you to shutdown and reboot the system as well as manage the disks and remount global data. You may also use this option to configure printers and monitors and diagnose hardware problems.

### **Shutdown System**

To shut down the system before powering off the machine.

### **Reboot System**

To reboot the operating system.

### **Disk Manager**

To mount file system partitions, format hard drives, view available disk space, and initialize floppy disks.

### **ReMount Global Data**

To remount global data.

### **Sync Time with Server**

To synchronize time with the server.

### **Config Printer**

To configure a printer.

### **Config Monitors**

To configure the monitors.

### **Diagnostics**

To test the hardware using the standard HP-UX utility.



### **3.1 Shutdown System**

Use the Shutdown System option to safely shut down the operating system before powering down the machine.

To shut down the system:

1. From the Hardware menu, select Shutdown System. The Shutdown? window appears.

Figure 3.1-1 Shutdown? Window

2. Click OK to confirm shutdown and continue the process.
3. When a message appears indicating that the process is complete, turn off the machine.

## 3.2 Reboot System

Use the Reboot System option to reboot the operating system. A reboot takes approximately six minutes.

To reboot the system:

1. From the Hardware menu, select Reboot System. The Reboot? window appears.

Figure 3.2-1 Reboot? Window

2. Click OK to confirm the reboot. When the reboot is complete, the login window appears.

### 3.3 Disk Manager

The Disk Manager option enables you to perform the following file system management functions:

- 7 View hard disk space availability
- 7 Attach an existing file system to a directory
- 7 Attach a new file system to a directory
- 7 Remove a file system from a directory
- 7 Initialize a floppy disk
- 7 Reformat a selected device and create a new file system

To view hard disk space availability:

1. From the Hardware menu, select Disk Manager. The Disk Manager window appears.

Figure 3.3-1 Disk Manager Window

2. View the amount of disk space used and available for each file system.

Note that a mounted file system can be accessed for read and write operations. Mounted file systems are highlighted in yellow in the Disk Manager window. You may click Refresh at anytime to update the window entries.



To attach an existing file system to a directory

1. In the Disk Manager window, select a file system.
2. Click MOUNT to open the MOUNT FILE SYSTEM window.

Figure 3.3-2 MOUNT FILE SYSTEM Window

3. Enter a mount point (i.e., an unused location to mount the file system) in the MOUNT POINT field. You may enter a mount point in one of two ways:
  - a. Type the location, if known, in the MOUNT POINT field.
  - b. Toggle on the checkbox to the left of the MOUNT POINT field to open the Choose Mount Point window. Select a mount point from the scroll list.
4. In the MOUNT FILE SYSTEM window, click Mount.
5. If the file system should be mounted each time the system is rebooted, select Yes at the prompt Do you want to permanently mount the file system? Select No if the file system should *not* be mounted each time the system is rebooted.

To attach a new file system to a directory

1. Click Mount New to open the MOUNT FILE SYSTEM window.
2. In the FILE SYSTEM field, enter the new file system name.
3. Enter a mount point (i.e., an unused location to mount the file system) in the Mount Point field. You may enter a mount point in one of two ways:

- a. Type the location, if known, in the MOUNT POINT field.
- b. Toggle on the checkbox to the left of the MOUNT POINT field to open the Choose Mount Point window. Select a mount point from the scroll list.

4. In the MOUNT FILE SYSTEM window, click MOUNT.
5. If the file system should be mounted each time the system is rebooted, select Yes at the prompt Do you want to permanently mount the file system? Select No if the file system should *not* be mounted each time the system is rebooted.

To remove a file system from a directory:

1. In the Disk Manager window, select the file system.
2. Click UNMOUNT.
3. Select Yes or No at the prompt: Do you want to permanently unmount the file system?

To format a floppy disk:

1. Click INIT FLOPPY to open INITIALIZE FLOPPY window.

Figure 3.3-3 INITIALIZE FLOPPY Window

2. Click the arrow to display a list of valid floppy drive devices, and select a device from the list.
3. Click OK. A Warning window appears.
4. Click Continue to confirm the initialization, or Cancel to return to the Disk Manager window.

To reformat a selected device and create a new file system:

Note: All data on the selected device will be removed.

1. Click NEWFS to open the New File System window.

Figure 3.3-4 New File System Window

2. Select the disk device to reformat in one of two ways:
  - a. Type the disk device in the DISK DEVICE field.
  - b. Click the arrow to display a list of valid disk devices, and select the device from the list.

The DISK TYPE and DISK SIZE fields update automatically.

3. Click OK. A Warning window appears.
4. Click Continue to format the device, or Cancel to stop the process.



### **3.4 ReMount Global Data**

To remount the global data:

1. From the Hardware menu, select ReMount Global Data. The Remount data files? window appears:

Figure 3.4-1 Remount data files? Window

2. Click OK to confirm the remount and continue the process.

### **3.5 Sync Time with Server**

No documentation available at this time.

## 3.6 Config Printer

The Config Printer option enables you to add and configure a printer for a specific machine and port, and to define remote access for the printer on the LAN. After making any changes to the printer setup, it is mandatory to initialize the printer configuration.

Using this option, you may do the following:

- \* Access the printer setup database.
- \* Add and configure a printer.
- \* Edit a printer.
- \* Delete one or more printers.

To access the printer setup database:

From the Hardware menu, select Config Printer. The PRINTER SETUP window appears.

Figure 3.6-1 PRINTER SETUP Window



To add and configure a printer:

The following steps demonstrate how to add and configure an HPaintJet printer for the TTYB port of the jots1 machine. These steps are for demonstration only and may not correspond with a particular site's configuration.

Figure 3.6-2 ADD NEW PRINTER Window

1. In the PRINTER SETUP window, click ADD to access the ADD NEW PRINTER window.
2. Click the list box next to PRINTER NAME for a list of printers.
3. Click HP PAINTJET 3630A. The entry will appear in the PRINTER NAME field.
4. Click the list box next to HOST MACHINE for the list of hosts on the LAN. In this example, the HP PaintJet will be connected to jots1.
5. Select jots1. The entry will appear in the HOST MACHINE field.
6. Click the list box next to DEVICE for the list of ports on the workstation.
7. Select TTYB to configure the port for the HPaintJet printer. The entry will appear in the DEVICE field.
8. Type additional information into the REMARKS field; for example, the printer's location.
9. In AUTHORIZED REMOTE ACCESS field, toggle on checkboxes to enable remote printing. An 'X' denotes which machines have permission to use the printer.
10. Click OK to return to the PRINTER SETUP window and view the new data.

11. Select HP PAINTJET 3630A.
12. From the **PRINTER SETUP** window's pop-up menu, select **INITIALIZE** to set the printer configuration. The printer must be initialized each time you make changes to the setup (e.g., after using **ADD**, **EDIT**, or **DELETE**).
13. **Click OK.**
14. Click **OK** again. The **PRINTER SETUP** window appears.
15. Initialize each machine authorized for remote access.
  - a. Log in with a sysadmin account and password.
  - b. Use **CONFIG PRINTER**.

To edit a printer:

**EDIT** opens a window, identical to the **ADD NEW PRINTER** window, to view or change printer settings.

1. In the **PRINTER SETUP** window, select a printer and then click **EDIT**. The **EDIT PRINTER** window appears. This window has the same format as the **ADD NEW PRINTER** window.
2. For instructions on editing the printer, see the instructions provided for Figure 3.6-2.

To delete one or more printers:

1. From the **PRINTER SETUP** window, select one or more printers.
2. Click **DELETE**.

### 3.7 Config Monitors

Use this option to search for hardware on the machine (such as a graphics card) and to select configuration(s) consistent with the hardware.

1. From the Hardware menu, select Config Monitors. The following message appears:

jots 1 will now reboot. At the end of the reboot cycle, you will be prompted for a new monitor/keyboard configuration. This works for HP keyboards only. Continue (y/n)?

2. Press: y

The system:

- a. Reboots.
- b. Presents a list of possible configurations.
- c. Boots again using the selected configuration.

## **3.8 Diagnostics**

Use this option to test the TAC-4 hardware, using the standard HP-UX utility.

# *Section 4*

## Software Menu

The option on the Software menu enables you to install segments and patches. For systems configured with a second disk, the ECPN installer checks for space on that disk.

### **ECPN Installer**

To install segments from tape or hard disk.

## 4.1 ECPN Installer

The ECPN Installer option enables you to install segments and patches. For systems configured with a second disk, ECPN Installer checks for space on that disk. ECPN Installer will not install segments for which there is inadequate disk space or install segments on a disk that is over 80 percent full, or that will reach 80 percent capacity when the segment is loaded unless the DISK SPACE OVERRIDE option is selected prior to loading each segment.

A segment may be installed from a tape (cartridge, DATExabyte), or from a hard disk on which the software has been loaded. The source can be:

- \* Local - the machine hosting the installation (tape)
- \* Remote - another machine on the network (tape)
- \* Network - unspecified machines on the network (hard disk)

To enable network installation from a hard disk, rather than using a tape:

1. Load the software from a tape to the hard disk of one or more machines.
  - a. Use the INSTALLATION SERVER option.
  - b. A list of installation servers is automatically created on jots1, and contains machine names and the software loaded on each.
2. Install the software.
  - a. Use the ECPN Installer option (described below).
  - b. Choose NETWORK for the DEVICE rather than identifying a specific machine.
  - c. The installation server list on jots1 identifies a machine that has the requested software loaded on its disk.

To back up the installation server list for network installations, use the ARCHIVE NET SERVER DATA and RESTORE NET SERVER DATA options.

For instructions on installing segments, see Section 6.

To use the ECPN Installer option:

From the Software menu, select ECPN Installer. The SEGMENT INSTALLER window appears.

Figure 4.1-1 SEGMENT INSTALLER Window

Use the options in the SEGMENT INSTALLER window as follows:

- \* SELECT MEDIA -- defines the magnetic media and host machine from which to install the software.
- \* READ TOC -- displays the contents of the selected media.
- \* INSTALL -- installs the segment or patch.
- \* REL NOTES -- contains information regarding specific segments or patches.
- \* REQUIRED -- lists which segments or patches must be installed in conjunction with the selected segment.
- \* CONFLICTS -- lists which segments or patches cannot be installed in conjunction with the selected segment.
- \* DE-INSTALL -- deinstalls the selected segment or patch.
- \* STAT LOG -- displays date, name, version, and message regarding installed segments or patches.
- \* EXIT -- closes the window.

The SEGMENT INSTALLER window also features a pop-up menu containing the following options (in addition to the EXIT and SELECT MEDIA options described above):

- \* NETWORK SERVERS -- displays name, version, type, classification, system, and size of network servers.
- \* SELECT ALL TOC -- selects all segments and patches within the TOC scroll list.
- \* UNSELECT ALL TOC -- deselects all segments and patches within the TOC scroll list.
- \* SELECT ALL INSTALLED -- selects all segments and patches within the Segments Currently Installed



scroll list.

- \* UNSELECT ALL INSTALLED -- deselects all segments and patches within the Segments Currently Installed scroll list.
- \* CLEAR STATUS LOG -- clears information regarding installed segments or patches.
- \* DISK SPACE OVERRIDE -- overrides space restrictions when loading on a disk that exceeds 80 percent capacity. Allows user to select disk capacity of 80, 90, 95, or 99 percent. Please note that the system returns to the default of 80 percent after each segment is loaded. Therefore, this option must be selected prior to loading each segment.

# *Section 5*

## Network Menu

The Network menu provides the following options:

### **Change Machine ID**

To change the name and IP address for a machine.

### **Edit Local Host**

To modify local host information.

### **Set System Time**

To set the DTG for the system.

### **Set Master Host**

To designate a machine as master host.



## 5.1 Change Machine ID

The Change Machine ID option enables you to select a name and Internet Protocol (IP) address for a machine. (For more information, see Section 6.) Note that a machine's name (ID) and address are selected at system installation from a list delivered with the system. The network *does not* permit two machines to have the same name and address.

To change the machine ID:

1. From the Network menu, select Change Machine ID. The Change Machine ID window appears.

Figure 5.1-1 Change Machine ID Window

2. In the Machine ID field, select a new name for the machine from the list box preceding the field.
3. In the IP Address field, enter the new IP address for the machine.
4. The machine must be rebooted after changing its name. User-defined names may be created after all machines are installed using the Edit Local Host option (described in Section 5.2).

About Server Switchover: If the jots1 machine fails, the system automatically transfers all data to the designated backup server. (See Section 5.4) Other machines on the LAN will recognize the backup machine as the server. Do not use Change Machine ID to rename the backup machine to jots1.

## 5.2 Edit Local Host

The Edit Local Host option enables you to add or delete machines from the host database and modify machine information, such as name, IP address, or aliases.

The following are important items to consider before modifying host information:

- \* Change information (names, IP addresses, and aliases) *after* all machines are installed, but *before* the system is used.
- \* Make changes *first* on the CP for the LAN.
- \* All changes must be repeated *exactly the same* on each LAN machine. You must define the same information, in the same order, on each machine.

To modify information, complete the following tasks on each machine. Detailed information about the options used in these steps are provided elsewhere in this manual.

1. Modify host information using the Edit Local Host option (described below).

Important: Do not reboot when prompted. It will be necessary to reload the software if the system is rebooted at this time.

2. Set the server backup using the Set Master Host option (described in Section 5.4). This step is mandatory even if the backup host is not modified.
3. Assign a new machine name using the Change Machine ID option (described in Section 5.1). You must reboot at the prompt for changes to take effect.

Using the Edit Local Host option, you can do the following:

- \* Access the host database.
- \* Add a host.
- \* Delete a host.

- \* Edit a host.
- \* Export host information.

To access the host database:

From the Network menu, select Edit Local Host. The EDIT HOSTS window appears.

Figure 5.2-1 EDIT HOSTS Window

The EDIT HOSTS window lists all machines on the LAN that can be accessed from your machine. The data listed for each machine entry is displayed under the following column headings:

\*

A (add), D (delete), or M (modify) indicate pending changes made to the machine. T indicates a trusted machine. A trusted machine can be accessed from another machine on the same LAN. For example, to access a tape drive for a remote installation.

**MACHINE NAME**

Name of the machine. This can be system-defined (jots1, jots2, etc.) or user-defined.

**IP ADDRESS**

Unique Internet protocol address.

**ALIASES**

List of other names by which a machine is also known.

### To add a host

1. In the EDIT HOSTS window, click ADD. The ADD MACHINE window appears.

Figure 5.2-2 ADD MACHINE Window

2. In the NEW MACHINE NAME field, enter a name for the host.
3. In the NEW MACHINE ADDRESS field, enter an IP address for the host.
4. To define the new machine as a trusted machine, toggle the TRUSTED MACHINE checkbox on.
5. To add or delete aliases for a machine:
  - a. Click ALIASES to open the ALIASES window.
  - b. Add or delete one or more aliases.
  - c. Click OK to close the ALIASES window.
6. In the ADD MACHINE window, click OK. Note that an A appears in the \* column for the entry.
7. When you are finished making changes in the EDIT HOSTS window, click OK. If you click CANCEL, all changes made in the EDIT HOSTS window will be discarded.

### To delete a host:

1. In the EDIT HOSTS window, select a machine to delete and then click DELETE. A confirmation window appears.



2. Click YES to confirm the deletion. The EDIT HOSTS window reappears, displaying a D in the \* column for the entry.
3. When you are finished making changes in the EDIT HOSTS window, click OK. If you click CANCEL, all changes made in the EDIT HOSTS window will be discarded.

To edit a host:

1. In the EDIT HOSTS window, select a machine to edit and then click EDIT. The EDIT MACHINE window appears. This window has the same format as the ADD MACHINE window.
2. For instructions on editing the host, see the instructions provided for Figure 5.2-2.

To export host information to other machines on the LAN:

The EXPORT option is not currently implemented.

### 5.3 Set System Time

The Set System Time option enables you to set the date-time group (DTG) for the system, thereby ensuring that tracks are updated correctly.

To set the system time:

1. From the Network menu, select Set System Time. The SYSTEM TIME window appears.

Figure 5.3-1 SYSTEM TIME Window

2. Enter the new DTG in the format:ddhhmmZ MON YR. Example: October 4, 1995, 8:19 Zulu time would read: 040819Z OCT 95
3. Click OK to accept the new entry.

## 5.4 Set Master Host

The Set Master Host option enables you to designate a master server and to specify another machine on the LAN to automatically take over as the master server if the designated master server goes down. The backup server maintains an exact replica of the data contained on the master server. You should set the backup server after installation is complete and before the system is used.

When the master server goes down, the system generates an alert. An operator must acknowledge the alert and manually edit thecomms channels (as described in the ECPN User's Guide) to route them to the backup server.

Using the Set Master Host option, you can do the following:

- \* View the current master and backup servers.
- \* Designate a new master server.
- \* Designate a new backup server.

To view the current master and backup servers:

From the Network menu, select Set Master Host. The Server Master Node window appears.

Figure 5.4-1 Server Master Node Window

This window contains the following information:

**Current Master Node**

Machine that is the current master server for the LAN.

**Selected Master Node**

Machine that is the selected master server. The only time that this field will differ from the Current Master Node is during the Set Master process.

**Hosts**

List of all machines on the LAN.

**Backup Nodes**

Displays the current master server at the top of the list. The second entry is the backup server. Only two machines are permitted in the Backup Nodes box at one time.

You may use the Reset button at any time to reset the lists in the Server Master Node window to the order when Set Master or Set Backups was last clicked.

To designate a new master server:

Note: Only the current backup server can be designated as the new master server.

1. In the Backup Nodes box, select the current backup server (i.e., the second machine in the list).
2. Use the arrows below the Backup Nodes box to move the name of the current backup server to the top of the list.
3. Click the arrow above the Backup Nodes box to enter the current backup server name into the Selected Master Node field.
4. Click Set Master. The backup server immediately becomes the new master server. The new master server is displayed in the Current Master Node field and the Selected Master Node field.
5. Designate a new backup server.
  - a. To designate the former master server as the backup server, click Set Backups.

- b. To designate a different backup server, move the former master server back to the Hosts list and follow the directions below.

To designate a new backup server:

1. In the Server Master Node window, select a machine from the HOSTS box.
2. Use the arrows in the center of the window to transfer the machine name to the Backup Nodes box.  
(Only two entries are permitted in Backup Nodes box: the current master server, followed by the current backup server.)
3. Click Set Backups. All data is copied to the backup machine. This process could take up to ten minutes.  
(Do not promote the new backup server to Current Master Node until this process is complete.)

# *Section 6*

## Installation Instructions

This section provides installation instructions for the OS tape and for one or more application segment tapes.

Important:

- \* Applications are designed to run with specific OS versions. Check the tape labels for corresponding release numbers and dates for both application and OS.
- \* Installation removes previously installed code and overwrites data files.
- \* jots1 is the machine ID for the ECPN workstation designated as the comms processor (CP).

This section contains the following subsections:

### **Installation Types**

Describes the three types of ECPN installations.

### **Installing the Operating System**

Provides step-by-step instructions for installing the Operating System.

### **Installing Software Applications**

Provides step-by-step instructions for installing one or more software applications.





## 6.1 Installation Types

ECPN may be loaded onto standalone workstations, onto each workstation in a local area network (LAN), or onto a combination of standalone workstations and work groups on a LAN. Each machine on the LAN requires the following tapes:

- \* HP-UX 10.0 Installation tape
- \* HP-UX 10.0 Runtime tape
- \* ECPN Installation tape
- \* ECPN Administrator tape
- \* ECPN COE tape

### 6.1.1 Standalone Installation

A standalone workstation serves as the comms processor (CP) for the ECPN system. Appropriate comms devices are connected directly to it. During the installation, **jots1** must be selected as the machine ID. If the site has more than one standalone machine, *each* standalone machine must be designated **jots1** during installation.

For instructions on installing a standalone machine, see *Installing the Operating System* (Section 6.2) and *Installing Software Applications* (Section 6.3).

### 6.1.2 Network Installation

In a network installation, one workstation on the LAN is designated as the CP. Primary comms devices are connected directly to it. Due to heavy communications traffic, the CP should be the machine used least often by an operator. Normally, designation of the CP occurs at the installation briefing.

Standard procedure:

1. Install the software on the CP, **jots1**, first.
2. Repeat the process for each workstation, assigning a different ID number.

For instructions on installing a machine on the network, see *Installing the Operating System* (Section 6.2) and *Installing Software Applications* (Section 6.3).

### **6.1.3 Work Groups on the LAN**

Workstations on a LAN may be configured as a combination of work groups and standalone machines. Each work group operates as a separate LAN, with one workstation designated as the CP. For instructions on defining the work groups and standalone machines, see Unified Build Technical Bulletin #1. For each work group, use the network installation instructions.



## 6.2 Installing the Operating System

### 6.2.1 Installing the TAC-4

Perform the following steps in the correct order *No step may be omitted*

1. Turn off the machine. (See *Shutdown System*, Section 3.1.) Remember: On a TAC-4 it is necessary to begin installation from a powered-down machine.
2. Connect the DAT drive and the HP keyboard to the machine, if necessary, or skip to the next step.
  - a. Set the toggle switch to 3. The switch is located on the back of the DAT drive, left side. Press the appropriate button.
  - b. Remove the terminator plug from the SCSI cable. (The port is located on the back of the TAC-4 or on the rack holding the TAC-4.)
  - c. Replace the plug with the DAT drive cable. Keep the terminator plug handy; it will be reconnected to the SCSI port after the software is installed.
  - d. Plug the DAT drive into an appropriate power source.
  - e. Plug the HP keyboard cable into the jack on the right side of the TAC-4. (The jack is located beneath the keyboard tray.)
3. Turn on the machine (UPS, peripherals, and monitor).
4. Insert the HP-UX 10.0 Installation tape into the DAT drive.

Note: When inserting a tape, wait until the lights on the tape drive stop blinking before continuing with the installation process.

5. Turn on the CPU.

6. When the HPLogin Prompt appears on the screen, press the ESC key and BOOT\_ADMIN> prompt will be displayed.
  - a. Enter: b scsi.3.0
  - b. Press: Return
7. The Enter the number of the language you want: prompt appears.
  - a. Enter: 29 (English)
  - b. Press: Return
  - c. Press: Return (to confirm your selection)
8. **The Welcome to the HP-UX installation process! menu appears.**
  - a. Select: Install HPUX
  - b. Press: Return
  - c. The Would you like to enable the networking now prompt appears.
  - d. Enter: n (the default is y for yes)
  - e. Press: Return
9. The HP-UX Installation Utility - Select Whole System Configuration window appears

- a. Tab down to OK.

- b. Press: Return

10. The HP-UX Installation Utility - View/Modify Basic Configuration window appears

- a. Tab down to OK.

- b. Press: Return

11. The HP-UX Installation Utility - System Configuration window appears.

- a. Tab down to CONTINUE.

- b. Press: Return

12. The HP-UX Installation Utility - Interact withSwimstall window appears.

- a. Tab down to OK.

- b. Press: Return

13. A Starting System Configuration message appears.

14. A prompt appears prompting you to insert the HP-UX 10.0 Runtime (core) tape. Insert the tape.  
Runtime is approximately two hours.

15. The Welcome to HP-UX window appears. If you have connected the system to a network and are ready to link with a network, click YES. If you plan to use the system as a standalone machine, click NO. If YES, proceed with Step 16. If NO, proceed to Step 17, Step 20, and Step 27 through the end of this section.
16. The Required Information window appears. Enter the system name, IP address, and time zone which you have obtained from the network administrator. To continue, click YES or click NO to halt the system.
17. The System Hostname window appears. Type in yourhostname and click OK. A confirmation window appears to confirm thehostname.
18. The Time Zone window appears. Select the appropriate time zone and click OK.
19. If you have selected a North American time zone, the North American Time Zones window appears. Select the appropriate time zone and click OK. A confirmation window appears.  
  
Another confirmation window appears listing the date and time. If this information is not correct, click NO. The Date and Time window appears. Make any changes necessary and click OK. Another confirmation window appears. If the information is correct, click YES.
20. The Set Root Password window appears. Click NO. The password is set automatically by root.
21. The System Internet Address window appears. Enter yourinternet address, and click OK. A confirmation window appears.
22. The Additional Network Parameters window appears. Click YES.
23. The Subnetwork Mask and Gateway window appears. This step is optional.
  - a. If you do not want to set up a segmented network routed through a gateway, click CANCEL.
  - b. To set up a segmented network, enter yoursubnetwork mask, gateway host name, and IP address, and click OK. A confirmation window appears.
24. The Domain Name System window appears. This step is optional.



- a. If you do not want to search for addresses and names in other systems, click CANCEL.
  - b. To search for addresses and names, enter a local domain name, DNS server host name, and DNS server IP address, and click OK. A confirmation window appears.
25. The Network Information Service window appears. This step is optional.
  - a. If you do not want to configure your system to access information provided by the network information service, click CANCEL.
  - b. To configure your system as a network information service (NIS) system, enter a NIS domain name and click OK.
26. The System Parameters window appears stating: System is now configured for networking. If you wish to set up additional network parameters at a later time, make note of the line that needs to be entered. Click Close.
27. When the HP-UX start-up process is complete, remove the HP-UX 10.0 Runtime tape and insert the ECPN Installation tape.
28. The welcome window appears. Click on the OPTIONS button and select Fail-safe Session from the pull-down menu.
29. In the login window, login as root and Return.
30. An hpterm window appears.
  - a. Enter: tar xv [Return]
  - b. Enter: sh /Installer [Return]
31. The SEGMENT INSTALLER window appears. Remove the ECPN Installation tape and insert the

ECPN Administrator's tape.

32. In the SEGMENT INSTALLER window, click SELECT MEDIA. The SELECT MEDIA window appears.
  - a. In the DEVICES box, select OTHER.
  - b. Enter: /dev/rmt/0mn in the OTHER field, and click OK.
33. Click READ TOC in the SEGMENT INSTALLER window.
  - a. Select everything in the TABLE OF CONTENTS subwindow.
  - b. Click INSTALL.
  - c. A warning appears asking if you want to reboot the system upon completion of the installation. Click OK.
  - d. Exit from the SEGMENT INSTALLER window.
34. In the hpterm window, enter: reboot [Return]. The system reboots and an HP window appears. Remove the ECPN Administrator's tape and insert the ECPN COE tape.
35. The login window appears. Enter the login name: sysadm and the password: vinson. The System Administration window appears.
36. From the Software menu, select ECPN Installer. The SEGMENT INSTALLER window appears, click SELECT MEDIA.
37. The SELECT MEDIA window appears.
  - a. In the DEVICES box, select OTHER.

- b. Enter: `/dev/rmt/0mn` in the OTHER field, and click OK.

38. Click READ TOC in the SEGMENT INSTALLER window.
  - a. Select everything in the TABLE OF CONTENTS subwindow.
  - b. Click INSTALL. The installation process takes approximately 30 minutes. When it is complete, a warning window appears stating: Selected segment(s) installed successfully.
  - c. A confirmation window appears asking if you want to reboot after the installation. Click OK, and then click EXIT in the SEGMENT INSTALLER window.
39. From the Network menu, select Set Master Host. The SERVER MASTER NODE window appears.
  - a. From the HOST subwindow, select the host name that you entered. The right pointing arrow turns white. Click on this arrow and the name moves to the right. The upward pointing and left pointing arrow then turn white. Click on the upward pointing arrow to move your host name to the Selected Master Host field.
  - b. Click the SET MASTER button and then exit the window.
40. From the Hardware menu, select Reboot. Click OK. The system will reboot.
41. In the login window, login as secman and type in your password.
42. From the Accounts menu, select View User Accounts. The USER ACCOUNTS window appears.
  - a. Click ADD. The ADD ACCOUNT window appears.
  - b. Under Account Groups, select ECEDI Operator. It appears in the ROLES box.
  - c. In the ROLES box, select ECEDI Default ECEDI Operator.
  - d. In the Login Name field, enter your name. If desired, enter a description in the Description field.

- e. Click OK.

43. The ADD PASSWORD window appears.

- a. Enter your password.
- b. Verify your password by entering it again in the next field.
- c. Click OK.



44. In the ADD ACCOUNT window, click SAVE to update the window or click OK to update and exit.
45. From the System menu, select System Exit.
46. In the login window, login with your login name and enter your password. The ECPN program is now running. At this time you may remove the ECPN COE tape.

## **6.3 Installing Software Applications**

Installing the ECPN COE and Printer segments takes approximately one hour.

### **6.3.1 Installation Source**

Software applications may be installed from a tape drive (cartridge, DAT, or a hard disk). The source can be:

- ◆ Local - the machine hosting the installation
- ◆ Remote - another machine on the network
- ◆ Network - unspecified machines on the network

#### **6.3.1.1 Local**

To install the software from a local source, use the original tapes and the tape drive attached to the machine being installed. The tape drive and the magnetic medium must be compatible. For example, a DAT tape drive attached to the host machine cannot accept an application delivered on a cartridge tape. Choose either remote or network installation to load the software.

Installing from a local source is convenient for the initial installation, but requires locating the tapes to reinstall.

#### **6.3.1.2 Remote**

To install the software from a remote source, use the original tapes and a tape drive attached to another machine on the network. Use a remote source when the tape drive on the machine being installed is incompatible with the tapes. The remote machine must be similar to the machine being installed. Each machine must be assigned a unique ID other than jots0.

As is the case for local source, using a remote source is convenient for initial installation, but requires locating the tapes to reinstall.

#### **6.3.1.3 Network**

To install the software from the network source, use the software application resident on the hard disk drive of one or more network machines, not the original tapes. Before installing, the software must be loaded onto one or more machines on the network. Loading on multiple machines is highly recommended as it ensures easy access to the software.



To load the software:

1. Each machine on the network must have a unique ID other than jots0.
2. Use the Installation Server option to load the software.

After the software is loaded, it may be installed on any network machine by selecting network as the source. The software is not required to reside on a similar machine, as in the case of a remote source. A machine with a segment loaded onto its hard disk by the Installation Server option, must have the segment installed by the ECPN Installer option.

### 6.3.2 Installation Procedure

Before installation, carefully read *Installation Source*, described in Section 1.3.1, for a description of local, remote, and network installation sources. The following steps must be performed in the correct order. No step may be omitted. It takes approximately one hour to install the ECPN COE and Printer segments.

1. Log in with a sysadmin account and password.
2. Press Return after reading the DOD statement. The System Administrator screen appears.
3. Select Change Machine ID from the Network pull-down menu.
4. Click the list box to the left of the Machine ID field to display a list of valid IDs.
5. Highlight the ID.
  - ◆ Designate a unique ID for each machine on a LAN.
  - ◆ Use jots1 for each standalone machine.
  - ◆ Use jots1 for the comms processor on a LAN.
  - ◆ A user-defined name may be assigned to each machine, but only after the software is completely installed. (See *Edit Local Host*, Section 5.2)
  - ◆ The correct network address appears in the IP Address field.
  - ◆ Do not modify the IP Address field. The address is predefined for each ID.
6. Click OK in the Change Machine ID window.
7. Click OK in the confirmation window.

8. Click OK again when a warning window appears, notifying the user that the system will reboot. This reboot is required before the changes can take effect. When the reboot is complete, the login window appears.
9. Log in again with thesysadmin account (as used in step 1).
10. **Use Disk Manager from the Hardware pull-down menu to mount the second disk.**
  - ◆ Do not omit this step!
  - ◆ A highlighted entry indicates a mounted device or file system.
  - ◆ TAC-4 disk drives are identified as /dev/dsk/6s0 and /dev/dsk/5s0.
11. Highlight the unmounted disk and click Mount.
12. Click OK to accept the /home2 default in the Mounted On window. If /home2 is already in use, select another directory.
13. Click OK again at the Do you need a permanent mount? prompt. The System Administrator screen appears.
14. Insert the tape, if necessary:
  - a. Local - Insert the tape into the host machine.
  - b. Remote - Insert the tape into the remote machine.
  - c. Network - No tape is necessary. However, the software must be loaded onto the hard disk of one or more machines on the network.
15. Select ECPN Installer from the Software pull-down menu. The System Processing Warning window opens.
  - a. Click OK in the System Processing Warning window to open the ECPN Installer window.
  - b. Skip to Step 16 if the source Host and Device type are correct.
  - c. Click Select Media to display the Select Media window if the source Host and Device type are incorrect. Perform the steps indicated in the following table:

Local	Remote	Network
	You must know the name/ID of remote machine	
1. Select Local as Host.	1. Select Remote.	1. Select Network as the Device.

- |                      |  |              |
|----------------------|--|--------------|
| 2. Select the Device | 2. Click the Name list box                     | 2. Click OK. |
| 3. Click OK.         | next to the Remote label.                      |              |
|                      | 3. Select the remote machine.                  |              |
|                      | 4. Identify the Device for the remote machine. |              |
|                      | 5. Click OK.                                   |              |

16. Click Read TOC. Contents of the selected media will be displayed in the Table of Contents scroll list.
17. Highlight only the IFSD segment in the TOC scroll list.
18. Click Install. The IFSD segment must be installed before any other segments. After this segment is loaded, the system automatically reboots and returns to the login prompt.
19. Login with the sysadmin account and password used in Step 1.
20. Repeat steps 16 and 17.
21. Highlight the JMCIS COE, JMCIS Applications, and Printer segments in the TOC scroll list.
22. Click Install. It takes approximately 30 minutes to load the files from the tape.  
  
During installation, windows display information regarding the procedure. Respond as required. When installation is complete, the selected files appear in the Segments Currently Installed scroll list.
23. Click Exit to return to the System Administrator screen.
24. Remove the tape. To install additional segments, repeat the steps listed above.
25. Reboot the machine using the Reboot System option from the Hardware menu. Note that if the login window is *not* displayed after reboot, it is necessary to cycle power to shut down the machine and then restart.

To access ECPN applications, a user account with login and password is required. Contact the Security Manager for details.